## **ATTACHMENT 4**

#### BUDGET

#### 1. Detailed Cost Estimate

As part of RD 784's Drainage Basin C Improvement Fee Study, RD 784 has completed a detailed study of the costs of the project. This detailed cost estimate in included as Exhibit A attached to this document. This detailed cost estimate has been summarized within **Table 6** presenting the cost within the format required.

#### 2. Sources of Funding

The sources of funding for the project are summarized in the Sources and Uses Statement prepared below. RD 784 has previously completed a portion of the project and is requesting credit for the State share of those costs of previously completed work to be applied toward the local share of costs for the remaining work.

Reclamation District 784

North Drainage Basin C Regional Detention Basin and Pump Station 10

Proposed Sources & Uses Statement

Item	Amount
PROJECT USES (Summarized by Prior vs. Future Work)	
Work Completed to Date [1]	\$ 6,970,576
Remaining Project Costs	\$ 8,499,385
TOTAL PROJECT USES	\$ 15,469,961
50% State Share of Total Project Uses	\$ 7,734,980
50% Local Share of Total Project Uses	\$ 7,734,980
PROJECT SOURCES	
Local Funding Sources	
Locally Funded Prior Completed Work [2]	\$ 6,970,576
RD 784 Cash on Hand	\$ 764,405
Sub-Total Local Funding Sources	\$ 7,734,980
Non-Local Funding Sources	
IRWM SWFM Grant (50% of Remaining Costs)	\$ 4,249,693
IRWM SWFM Grant (50% of Work Completed) (Credit)	\$ 3,485,288
Sub-Total Non Local Funding Sources	\$ 7,734,980
Total Project Sources	\$ 15,469,961

<sup>[1]</sup> Items previously completed are shown a highlighted items on the detailed project estimate.

<sup>[2]</sup> Funded from Local Developer Fees (via Dedications, Advanced Funding/Reimbursement Agreements with credit toward the fees)

As shown above, the 50% cost share for the project is \$7,734,980. RD 784 has completed \$6,970,576 of work to date and funded this work entirely from local sources. RD 784 proposes to fund the remaining costs of the work, \$8,499,385, from the IRWM SWFM Grant and cash the District has on hand. RD 784 is requesting that DWR provide \$3,485,288 of credit (50% of the completed work to date) to RD 784 to match the 50% of the remaining costs of the project.

	% of Total	Quantity		Unit Cost	Subtotal	Engineering, Inspection, Construction Management (15.0%)	General Contigency (10%)	Total
1. Lateral 15 Improvements	1.48%							
Clearing and Grubbing	0.02%	2.00	AC	\$1,000.00	\$2,000.00	\$300.00	\$200.00	\$2,500.00
Channel Excavation	0.86%	6,500	CY	16.00	104,000.00	15,600.00	10,400.00	130,000.00
Hydroseeding	0.02%	19,200	SF	0.12	2,304.00	345.60	230.40	2,880.00
Maintenance Path (12" AB on Fabric)	0.01%	500	SF	1.50	750.00	112.50	75.00	937.50
Land Acquisition	0.58%	2.00	AC	40,000.00	80,000.00	0.00	8,000.00	88,000.00
				Subtotal	\$189,054.00	\$16,358.10	\$18,905.40	\$224,317.50
				Annual Incre	ease (Oct 2009 ENR	2 = 8592  and  Oct 20	007 ENR = 8045) =	15,251.92
							Adjusted Costs =	\$239,569.42
2. Regional Detention Basin at Ella Road:	27.99%							
Clearing and Grubbing (Alt No. 1 Pond)	0.22%	31.16		\$1,000.00	\$31,160.00	\$1,869.60		\$33,029.60
Excavation (Alt No. 1 Pond)	13.37%	695,000	CY	2.75	1,911,250.00	114,675.00	0.00	2,025,925.00
Compacted Embankment - Berm (Alt No. 1 Pond)	0.44%	23,100	CY	2.75	63,525.00	3,811.50	0.00	67,336.50
72 Inch Bore and Jack (under UPRR) (Pond Outfall)	1.45%	240	LF	750.00	180,000.00	21,600.00		219,600.00
72 Inch Inlet Structure	0.08%	2	LS	5,000.00	10,000.00	1,200.00		12,200.00
72 Inch Outlet Structure	0.08%	2	LS	5,000.00	10,000.00	1,200.00	1,000.00	12,200.00
Concrete Energy Dissipating Spillway (concrete)	0.00%	0-		<del>475,650.00</del>	0.00	0.00		0.00
72 Inch Storm Drainage Pipe (Pond Outfall)	1.50%	1,190	LF	180.00	214,200.00	12,852.00		227,052.00
72 Inch Bore and Jack (under UPRR) (Pond Outfall)	1.05%	200	LF	750.00	150,000.00	9,000.00		159,000.00
Maintenance Path (12" AB on Fabric) (Alt No. 1)	0.85%	70,000	SF	1.50	105,000.00	12,600.00	. ,	128,100.00
Miscellaneous Improvements (i.e. chain link fence, gate, minor grading) (Alt No. 1)	0.72%	1	LS	90,000.00	90,000.00	10,800.00	9,000.00	109,800.00
Land Acquisition (Alt No. 1 Pond)	8.23%	31.16	AC	40,000.00	1,246,400.00	0.00	0.00	1,246,400.00
				Subtotal	\$4,011,535.00	\$189,608.10	\$39,500.00	\$4,240,643.10
				Annual Incre	ease (Oct 2009 ENR	2 = 8592 and Oct 20	007 ENR = 8045) =	288,332.10
							Adjusted Costs =	\$4,528,975.20
3. Ella Pond Expansion (Subshed B3A, B3B, and B6A):	18.44%							
Clearing and Grubbing	0.14%	19.10	AC	\$1,000.00	\$19,100.00	\$1,432.50	\$0.00	\$20,532.50
Pond Excavation	12.19%	625,000	CY	2.75	1,718,750.00	128,906.25	0.00	1,847,656.25
Erosion Control Measures	0.34%	19.10	AC	2,500.00	47,750.00	3,581.25	0.00	51,331.25
Inlet and Outlet Facilities	0.25%	1	LS	30,000.00	30,000.00	4,500.00	3,000.00	37,500.00
Maintenance Path (12" AB on Fabric)	0.48%	45,000	SF	1.50	67,500.00	5,062.50	0.00	72,562.50
Ella Road Frontage Improvement (curb, gutter, sidewalk,	0.00%	0	LF	400.00-	0.00	0.00	0.00	0.00
landscaping, storm, etc)								
Land Acquisition	5.04%	19.10	AC	40,000.00	764,000.00	0.00	0.00	764,000.00
				Subtotal	\$2,647,100.00	\$143,482.50	\$3,000.00	\$2,793,582.50
				Annual Incre	ease (Oct 2009 ENR	2 = 8592  and  Oct 20	007  ENR = 8045) =	189,942.78
							Adjusted Costs =	\$2,983,525.28

Pump Station No. 10 - Regional Pump Station:	45.73%							
Mobilization/Demobilizatior	0.29%	1	LS	\$35,000.00	\$35,000.00	\$5,250.00	\$3,500.00	\$43,750.0
Compacted Embankment	0.30%	8,000	BCY	4.50	36,000.00	5,400.00	3,600.00	45,000.
Compacted Embankment	0.30%	6,000	CCY	6.00	36,000.00	5,400.00	3,600.00	45,000.
Class 2 Aggregate Base	0.07%	400	TN	20.00	8,000.00	1,200.00	800.00	10,000.0
Barb Wire Fence	0.07%	560	LF	15.00	8,400.00	1,260.00	840.00	10,500.0
Chain Link Fence (Type CL-6, Slatted)	0.07%	220	EA	40.00	8,800.00	1,320.00	880.00	11,000.
0 Foot Chain Link Double Swing Gate (Type CL-6, Slatted)	0.03%	2	EA	2,000.00	4,000.00	600.00	400.00	5,000.0
Foot Chain Link Pedestrain Gate (Type CL-6, Slatted)	0.01%	1	EA	750.00	750.00	112.50	75.00	937.5
Vetrical Axial-Flow or Mixed Flow, Single Stage Impeller Type	2.35%	3	EA	95,000.00	285,000.00	42,750.00	28,500.00	356,250.0
Pump (Byron Jackson 30 SPL or Casacade 20 MF or an approved qual)								
50 HP High Efficiency Electrical Motor (U.S. Motor or General Electric or approved equal)	0.87%	3	EA	35,000.00	105,000.00	15,750.00	10,500.00	131,250.0
Motor Control Center and Electrical Panel (includes conduit, alarms,	3.71%	1	LS	450,000.00	450,000.00	67,500.00	45,000.00	562,500.
CADA, sensors, generator ready system, telemetry, bollards,								
PG&E Service, and other incidential electrical work)								
Backup Generator (includes fuel tank, FRAQMD/State air quality	1.90%	1	EA	230,000.00	230,000.00	34,500.00	23,000.00	287,500.
permit, and enclosure)								
rump and Motor Installation (includes all work to install and setup	0.21%	3	EA	8,500.00	25,500.00	3,825.00	2,550.00	31,875.
ump and motor inside the pump structure								
ump Startup and Testing	0.11%	3	EA	4,500.00	13,500.00	2,025.00	1,350.00	16,875.
G&E Pole Relocation, Transfer Work, and Meter Panel (includes	0.37%	1	LS	45,000.00	45,000.00	6,750.00	4,500.00	56,250.
ll work with PG&E)								
Cast-in-Place Concrete (Motor Control Pad) (8 Inches thinck with #4	0.04%	80	SF	60.00	4,800.00	720.00	480.00	6,000.
ebar @ 12" oc each way)								
Cast-in-Place Concrete (Back-up Generator Pad) (8 Inches thinck with #4 rebar @ 12" oc each way)	0.07%	200	SF	40.00	8,000.00	1,200.00	800.00	10,000.0
Cast-in-Place Concrete (Transformer Pad) (8 Inches thinck with #4	0.03%	60	EA	60.00	3,600.00	540.00	360.00	4,500.0
ebar @ 12" oc each way)					,,,,,,,,,,			,
Generator Security Structure (includes masonry bloc wall,	0.29%	1	LS	35,000.00	35,000.00	5,250.00	3,500.00	43,750.
oundation, and concrete around generator)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	-,	- /	- ,
Generator Stair Platform	0.11%	2	EA	6,500.00	13,000.00	1.950.00	1,300,00	16,250.
Motor Control Center Security Structure (includes foundation and	0.54%	1		65,000.00	65,000.00	9,750.00	6,500.00	81,250.
oncrete slabs)				,	,	-,	0,0 0 0 0 0 0	0-,0
Security Lighting	0.05%	1	EA	6,500.00	6,500.00	975.00	650.00	8,125.0
Pump Station Complete (includes concrete structure, concrete	8.25%		LS	1,000,000.00	1,000,000.00	150,000.00	100,000.00	1,250,000.0
tariway, pipe supports, retaining wall, pump supports, valve	0.2070	_		-,,	-,,	,	,	-,,
nclosure)								
Pump Station - Miscellaneous Metals (Piping, valves, lids, access	1.24%	1	LS	150,000.00	150,000,00	22,500,00	15.000.00	187,500.
over, bollards, handrails, guard rails, expanded metal grating, steel	1.2.70	•	20	150,000.00	120,000.00	22,000.00	15,000.00	107,500.
loor, steel beams, pipe sleeves, spool, OSHA approved access								
adder, and trash rack)								
Dewatering - Pump Station Sump	0.54%	1	LS	65,000.00	65,000.00	9,750.00	6,500.00	81,250.0
	U.JT/U	1		05,000.00	05,000.00	2,130.00	0,500.00	01,230.0

5. Pump Station No. 10 Forcemain (Pump Station to Feather River B								
Mobilization/Demobilizatior	0.12%		LS	\$15,000.00	\$15,000.00	\$2,250.00	\$1,500.00	\$18,750.00
Clearing and Grubbing	0.13%		LS	16,000.00	16,000.00	2,400.00	1,600.00	20,000.00
Trench Sheeting, Shoring, and Bracing as required by section 6707	0.13%	1	LS	16,000.00	16,000.00	2,400.00	1,600.00	20,000.00
of the California Labor Code								
48 Inch Concrete Lined Cylinder Pipe (AWWA C301) or 48 Inch	5.16%	2,360	LF	265.00	625,400.00	93,810.00	62,540.00	781,750.00
Precast RCP (ASTM C-76) or 48 Inch Corrosion Proofed Steel								
Discharge Pipe (3 Gauge) or 48 Inch PVC (AWWA C905)								
36 Inch Class 150B Butterfly Valve (Mueller Lineseal III FLxFL	0.16%	1	EA	20,000.00	20,000.00	3,000.00	2,000.00	25,000.00
Type or an approved equal)								
36 Inch Concrete Lined Cylinder Pipe (AWWA C301) or 36 Inch	0.12%	60	EA	250.00	15,000.00	2,250.00	1,500.00	18,750.0
Precast RCP (ASTM C-76) or 36 Inch HDPE Discharge Pipe								
(AWWA C906 DR 17) or 36 Inch Corrosion Proofed Steel								
Discharge Pipe (3 Gauge) or 36 Inch PVC (AWWA C905)								
Outlet Structure (Lateral 14)	0.07%	1	EA	8,500.00	8,500.00	1,275.00	850.00	10,625.0
36 Inch Automatic Drainage Gate (Waterman Model AF-41 or an	0.04%	1		5,000.00	5,000.00	750.00	500.00	6,250.00
approved equal)	0.0470	1	Lil	3,000.00	3,000.00	750.00	300.00	0,230.0
Trench Restoration	0.97%	2,360	LF	50.00	118,000.00	17,700.00	11,800.00	147,500.00
Rock Slope Protection (Facing, method B) (Lateral 14 Outfall)	0.09%	120	TN	90.00	10,800.00	1,620.00	1,080.00	13,500.00
Storm Water Pollution Prevention Plar	0.04%	120		5,000.00	5,000.00	750.00	500.00	6,250.0
Storm water Politition Prevention Plan	0.04%	1	LS	3,000.00	3,000.00	730.00	300.00	0,230.00
6. Pump Station No. 10 Forcemain (Feather River Boulevard to Leve	e Crossing)							
Mobilization/Demobilizatior	0.12%	1	LS	\$15,000.00	\$15,000.00	\$2,250.00	\$1,500.00	\$18,750.00
Clearing and Grubbing	0.12%	1		16,000.00	16,000.00	2,400.00	1,600.00	20,000.00
Trench Sheeting, Shoring, and Bracing as required by section 6707	0.13%	1		16,000.00	16,000.00	2,400.00	· · · · · · · · · · · · · · · · · · ·	20,000.00
of the California Labor Code	0.1370	1	Lo	10,000.00	10,000.00	2,400.00	1,000.00	20,000.00
48 Inch Concrete Lined Cylinder Pipe (AWWA C301) or 48 Inch	5.25%	2,400	1.17	265.00	636,000.00	95,400.00	63,600.00	795,000.00
	3.23%	2,400	LF	203.00	030,000.00	93,400.00	05,000.00	793,000.00
Precast RCP (ASTM C-76) or 48 Inch Corrosion Proofed Steel								
Discharge Pipe (3 Gauge) or 48 Inch PVC (AWWA C905)		_						
36 Inch Class 150B Butterfly Valve (Mueller Lineseal III FLxFL	0.33%	2	EA	20,000.00	40,000.00	6,000.00	4,000.00	50,000.00
Type or an approved equal)		-0						
36 Inch Concrete Lined Cylinder Pipe (AWWA C301) or 36 Inch	0.12%	60	EA	250.00	15,000.00	2,250.00	1,500.00	18,750.0
Precast RCP (ASTM C-76) or 36 Inch HDPE Discharge Pipe								
(AWWA C906 DR 17) or 36 Inch Corrosion Proofed Steel								
Discharge Pipe (3 Gauge) or 36 Inch PVC (AWWA C905)								
Trench Restoration	0.20%	400	LF	60.00	24,000.00	3,600.00	2,400.00	30,000.0
Rock Slope Protection (Facing, method B) (Lateral 14 Outfall)	0.09%	120	TN	90.00	10,800.00	1,620.00	1,080.00	13,500.0
Storm Water Pollution Prevention Plar	0.04%	1	LS	5,000.00	5,000.00	750.00	500.00	6,250.00
7. Pump Station No. 10 Forcemain (Levee Crossing)								
Mobilization/Demobilizatior	0.16%		LS	\$20,000.00	\$20,000.00	\$3,000.00	\$2,000.00	\$25,000.0
Clearing and Grubbing	0.12%	1	LS	15,000.00	15,000.00	2,250.00	1,500.00	18,750.0
Trench Sheeting, Shoring, and Bracing as required by section 6707	0.16%	1	LS	20,000.00	20,000.00	3,000.00	2,000.00	25,000.0
of the California Labor Code								
36 Inch Concrete Lined Cylinder Pipe (AWWA C301) or 36 Inch	1.62%	560	LF	350.00	196,000.00	29,400.00	19,600.00	245,000.0
HDPE Discharge Pipe (AWWA C906 DR 17) or 36 Inch Corrosion								
Proofed Steel Discharge Pipe (3 Gauge)								
36 Inch Class 150B Butterfly Valve (Mueller Lineseal III FLxFL	0.33%	2	EA	20,000.00	40,000.00	6,000.00	4,000.00	50,000.0
Type or an approved equal)		_		- /	-,	-,	.,	2 3,3 3 0 10
Valve Utility Box and Lid Assembly (pipes greater then 18 inches)	0.33%	2	EA	20,000.00	40,000.00	6,000.00	4,000.00	50,000.0
(box and lid shall meet H-20 loading) (Jensen 727272 Valve Box or	0.5570	2	_,,	20,000.00	.0,000.00	0,000.00	1,000.00	50,000.0
an approved equal)								
Siphon Beaker and Air Relief Valve (Harris HSB 05 A 36 or an	0.16%	2	EA	10,000.00	20,000.00	3,000.00	2,000.00	25,000.0
approved equal)	0.1070	2	LA	10,000.00	20,000.00	3,000.00	2,000.00	23,000.0
Motor Actuator for 36" Gate Valve	0.11%	2	EA	6 500 00	12 000 00	1,950.00	1,300.00	16 250 0
			EA EA	6,500.00 300.00	13,000.00 600.00	1,950.00	1,300.00	16,250.00 750.00
Warning Sign at Levee Toe	0.00%	2	EA	300.00	000.00	90.00	60.00	/30.00
							ı	

8. Pump Station No. 10 Outfall Pipe/Open Ditch (Levee Crossing to C	Old River Cha	nnel)						
Mobilization/Demobilizatior	0.12%	1	LS	\$15,000.00	\$15,000.00	\$2,250.00	\$1,500.00	\$18,750.00
Clearing and Grubbing	0.13%	1	LS	16,000.00	16,000.00	2,400.00	1,600.00	20,000.00
Trench Sheeting, Shoring, and Bracing as required by section 6707	0.13%	1	LS	16,000.00	16,000.00	2,400.00	1,600.00	20,000.00
of the California Labor Code								
48 Inch Concrete Lined Cylinder Pipe (AWWA C301) or 48 Inch	2.95%	1,350	LF	265.00	357,750.00	53,662.50	35,775.00	447,187.50
Precast RCP (ASTM C-76) or 48 Inch Corrosion Proofed Steel								
Discharge Pipe (3 Gauge) or 48 Inch PVC (AWWA C905)								
Outfall Structure	0.21%	1	LS	25,000.00	25,000.00	3,750.00	2,500.00	31,250.00
48 Inch Automatic Drainage Gate (Waterman Model AF-41 or an	0.05%	1	EA	6,500.00	6,500.00	975.00	650.00	8,125.00
approved equal)								
Channel Excavation (approx 1,450 feet)	1.46%	32,222	BCY	5.50	177,222.22	26,583.33	17,722.22	221,527.78
Channel Embankment	0.69%	8,000	CCY	10.50	84,000.00	12,600.00	8,400.00	105,000.00
Rock Slope Protection (Facing, method B)	0.18%	240	TN	90.00	21,600.00	3,240.00	2,160.00	27,000.00
Storm Water Pollution Prevention Plar	0.25%	1	LS	30,000.00	30,000.00	4,500.00	3,000.00	37,500.00
Erosion Control Seeding	0.12%	8.00	AC	2,000.00	16,000.00	0.00	1,600.00	17,600.00
Right-of-Way Acquisition (Easement)	1.16%	8.00	AC	20,000.00	160,000.00	0.00	16,000.00	176,000.00
				Subtotal	\$5,564,022.22	\$808,203.33	\$556,402.22	\$6,928,627.78
				Annual Incre	07 ENR = 8045) =	471,095.01		

Total Shed A Drain Costs = \$12,411,711.22

\$1,157,652.03 \$617,807.62 \$15,151,792.69

Adjusted Costs =

50,000.00 Mitigated Negative Declaration = Post Project LOMR = 50,000.00

65,000.00

Agency Permits (Corps 404, CVFPB, Fish and Game 1602, Water Qaulity 401, etc) = TOTAL \$15,316,792.69

**Direct District Administration =** 153,167.93

Work Completed through Reimbursement Agreements = (6,970,575.60)

(764,404.71) Funds Available =

\$7,734,980.31

# Table 6 - Project Budget Proposal Title: RD 784 Drainage Basin C Regional Detention Pond and Pump Station Improvement Project Project Title: Drainage Basin C Regional Detention Pond and Pump Station

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$76,584	\$76,584	\$0	\$153,168	50.0%
(b)	Land Purchase/Easement	\$1,214,521	\$1,214,521	\$0	\$2,429,042	50.0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$370,909	\$370,909	\$0	\$741,818	50.0%
(d)	Construction/Implementation	\$5,413,287	\$5,413,287	\$0	\$10,826,573	50.0%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$82,424	\$82,424	\$0	\$164,848	50.0%
( <b>f</b> )	Construction Administration	\$164,849	\$164,849	\$0	\$329,697	50.0%
(g)	Other Costs	\$82,500	\$82,500	\$0	\$165,000	50.0%
(h)	Construction/Implementation Contingency	\$329,907	\$329,907	\$0	\$659,814	50.0%
(i)	Grand Total (Sum rows (a) through (h) for each column)	\$7,734,980	\$7,734,980	\$0	\$15,469,960	50.0%

#### \*List sources of funding:

Development Impact Fees

Dedications with Reimbursement Agreements

Dedications with Fee Credit Agreements

Advanced Funding Program - Developer Fees

Yuba County Water Agency Loans

	Table 7 - Summary Budget Proposal Title: RD 784 Drainage Basin C Regional Detention Pond and Pump Station										
	Individual Project Title	Non-State Share (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match					
(a)	Project A	\$7,734,980	\$7,734,980	\$0	\$15,469,960	50.0%					
(b)	Project B				\$0	0.0%					
(c)	Project C				\$0	0.0%					
(d)	Project D				\$0	0.0%					
(e)	Project E				\$0	0.0%					
( <b>f</b> )	Project F				\$0	0.0%					
(g)	Project G				\$0	0.0%					
(h)	Project H (add more rows for additional projects as necessary				\$0	0.0%					
(i)	Grand Total (Sum rows (a) through (h) for each column)	\$7,734,980	\$7,734,980	\$0	\$15,469,960	50.0%					